

Table 1. Baseline data for total mercury (THg) and methylmercury (MeHg) concentration in STA soils (i.e., 10 cm depth composite; unit ng/g dry weight).

STA	Year	Sample No.	THg	remark**	MeHg	remark**
STA 6	Sep-97	STA6-1	87.0		0.341	
	Sep-97	STA6-2	31.0		0.121	
	Sep-97	STA6-3	24.0 <sup>A</sup>		0.192	
	Sep-97	STA6-4	44.0		1.093	
	Sep-97	STA6-5	130.0		1.373	
	Sep-97	STA6-6	140.0		1.496 <sup>A</sup>	
mean			76.0 $\pm$ 50.77		0.769 $\pm$ 0.622	
STA 5	Nov-98	STA5-1	86.3 <sup>AV2</sup>		0.598	
	Nov-98	STA5-2	114.0		0.674	
	Nov-98	STA5-3	81.0		0.528	
	Nov-98	STA5-4	52.2		0.800	
	Nov-98	STA5-5	116.1		0.455	
	Nov-98	STA5-6	86.9		0.146	
mean			89.4 $\pm$ 23.61		0.534 $\pm$ 0.224	

\*\* For qualifier definitions, see FDEP rule 62-160.

Spatially averaged mean for ENR was 73 ng THG/g and 0.072 ng MeHg/g dry wt in 1998.

Table 2. Concentrations of total mercury (THg) and methylmercury (MeHg) in STA surface waters (units, ng/L).

STA	Quart.	THg (ng/ L)		THg WQS <sup>1</sup>	MeHg (ng/ L)	
		Inflow remark <sup>3</sup>	Outflow remark <sup>3</sup>		Inflow remark <sup>3</sup>	Outflow remark <sup>3</sup>
STA 6	98-1	0.89	1.12	< WQS	0.127	0.289
	98-2	1.30 I	0.81 I	< WQS	0.038 U	0.038 U
	98-3	(1.45) ?	(1.47) ?	< WQS	(0.300) J A	(0.218) J
	98-4	1.18	1.51 A	< WQS	0.270	0.230 A
	99-1	(1.61) J3	(0.67) J3	<WQS	0.207	0.076 I
	99-2 <sup>2</sup>	N/A				

1. Class III Water Quality Standard of 12 ng THg / L (there is no WQS for MeHg).

2. N/A = Not available yet; 99-2 water sample collected on 26 April 1999.

3. Data in parenthesis did not meet quality control checks; for qualifier definitions, see FDEP rule 62-160: remark codes:

"?" = do not use, unacceptable field QC: blank contamination.

"J3" = estimated value, poor precision in field duplicates.

"J" = estimated value, unacceptable lab QC, e.g., poor replicability (duplicate digest or duplicate analyses), poor recovery in matrix spike or SRM (data qualified by lab).

"A" = averaged value.

"U" = undetected, value is the MDL.

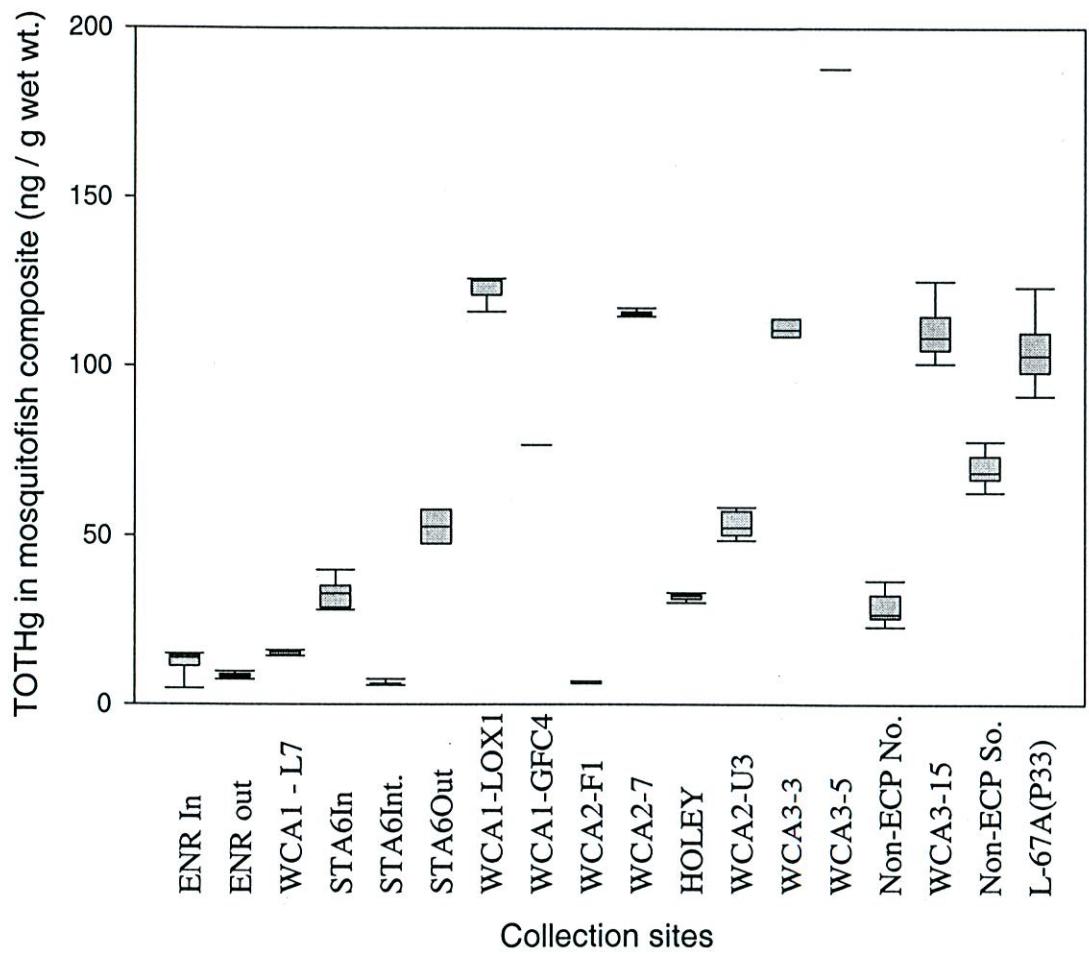
"I" = below PQL.

Table 7. Concentrations of total mercury (THg) and methylmercury (MeHg) in Non-ECP structure surface waters (units, ng/L).

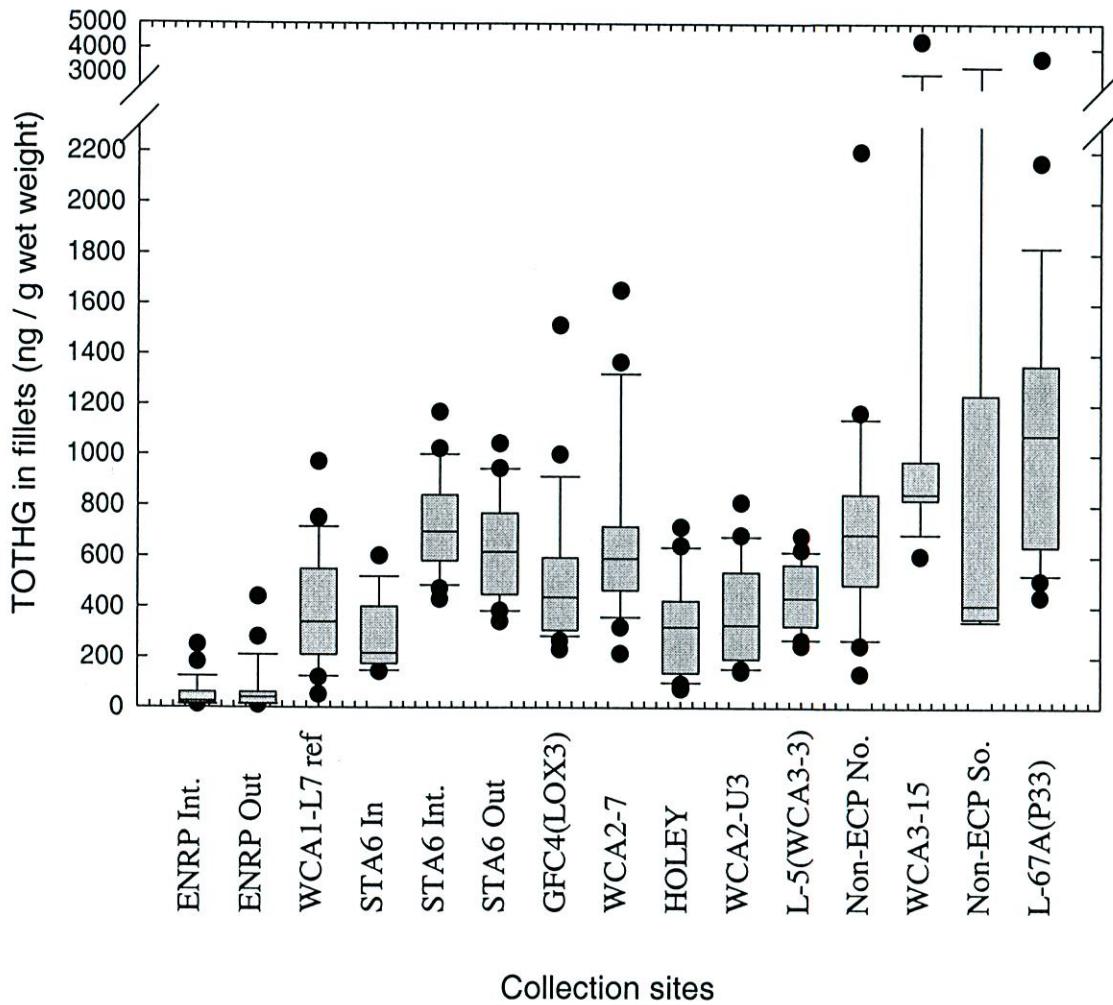
Structure	Quarter	THg ng/L	remark**	WQS*	MeHg ng/L	remark**
<b>L28</b>	98-1	1.07		<WQS	(0.085)	J4
	98-2	(0.65)	J3 I	<WQS	0.083	I
	98-3	(0.75)	?	<WQS	0.050	I
	98-4	1.48		<WQS	0.239	
	annual average	1.28			0.12	
	cumulative avg.	1.03			0.10	
<b>S10C</b>	98-1	1.21		<WQS	(0.044)	J4
	98-2	(1.10)	J3	<WQS	(0.316)	J4
	98-3	(1.55)	?	<WQS	0.281	
	98-4	0.99		<WQS	NA	
	annual average	1.10			0.28	
	cumulative avg.	1.59			0.16	
<b>S12D</b>	98-1	0.90		<WQS	(0.075)	J4
	98-2	(0.68)	J3	<WQS	(0.071)	J4 I
	98-3	(1.45)	?	<WQS	0.254	
	98-4	0.96		<WQS	0.166	
	annual average	0.93			0.21	
	cumulative avg.	1.12			0.13	
<b>S140</b>	98-3	(2.21)	?	<WQS	0.342	
	98-4	1.39		<WQS	NA	
	annual average	1.39			0.34	
	cumulative avg.	2.19			0.34	
<b>S141</b>	98-1	1.16		<WQS	0.020	I
	98-2	(0.93)	J3 I	<WQS	(0.088)	J4 I
	98-3	(2.30)	?	<WQS	0.465	
	98-4	0.99		<WQS	NA	
	annual average	1.08			0.24	
	cumulative avg.	1.34			0.19	

Table 7. Continued.

Structure	Quarter	THg ng/L	remark**	WQS*	MeHg ng/L	remark**
<b>S151</b>	98-1	0.98		<WQS	0.039	
	98-2	(0.96)	J3 I	<WQS	0.167	
	98-3	(1.12)	? A	<WQS	0.188	
	98-4	1.23		<WQS	0.172	
	annual average	1.11			0.14	
	cumulative avg.	1.50			0.12	
<b>S32</b>	98-1	1.23		<WQS	(0.090)	J4
	98-2	(1.15)	J3	<WQS	0.167	
	98-3	(1.13)	?	<WQS	0.116	
	98-4	0.71		<WQS	0.123	A
	annual average	0.97			0.14	
	cumulative avg.	0.91			0.12	
<b>S334</b>	98-1	0.82		<WQS	(0.057)	J4
	98-2	(3.82)	J3 I	<WQS	0.121	I
	98-3	(0.96)	?	<WQS	0.132	
	98-4	0.45	I	<WQS	0.197	
	annual average	0.64		<WQS	0.15	
	cumulative avg.	1.15			0.14	
<b>S5A</b>	98-1	1.87		<WQS	0.107	
	98-2	(2.75)	J3	<WQS	(0.06)	J4 I
	98-3	(1.22)	?	<WQS	0.154	
	98-4	1.86		<WQS	0.670	
	annual average	1.87			0.31	
	cumulative avg.	2.87			0.25	
<b>S9</b>	98-1	1.16		<WQS	(0.034)	J4,I
	98-2	(0.36)	J3 I	<WQS	(0.057)	J4, I
	98-3	(0.72)	?	<WQS	0.070	I
	98-4	0.69		<WQS	0.058	I
	annual average	0.93			0.06	



Boxplot of TOTHg concentration in mosquitofish composites collected in Oct.-Nov 1998 at ENRP, STA6, ECP and NON-ECP sites. Whiskers show variance (10, 90th percentile) among aliquots from a single composite (i.e., analytical + homogenization variability).



Boxplot of TOTHG concentration in largemouth bass (*Micropterus sp.*) collected in 1998 at ENRP (no fish from inflow, FGFWFC), STA6, ECP and NON-ECP collection sites (target locations in parenthesis). Whiskers show variability among replicates (target n = 20 fish from each site).